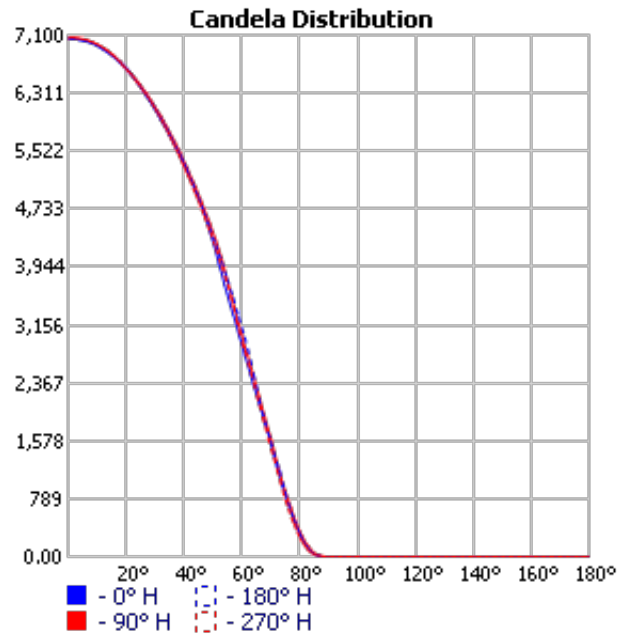
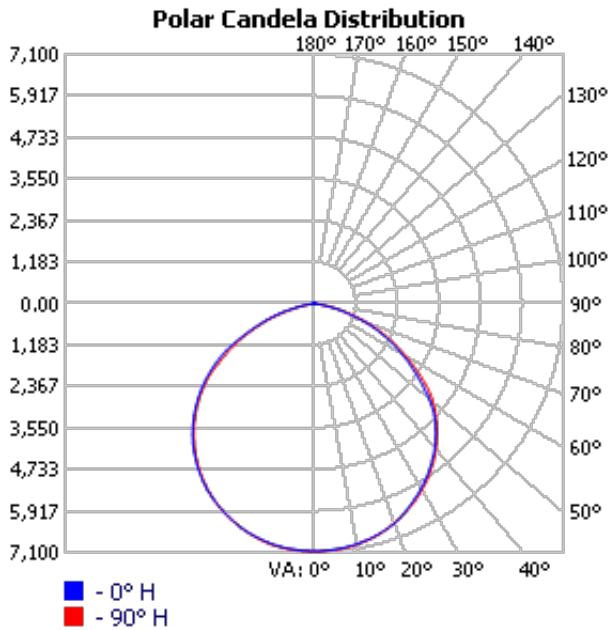


OUTDOOR PHOTOMETRIC REPORT

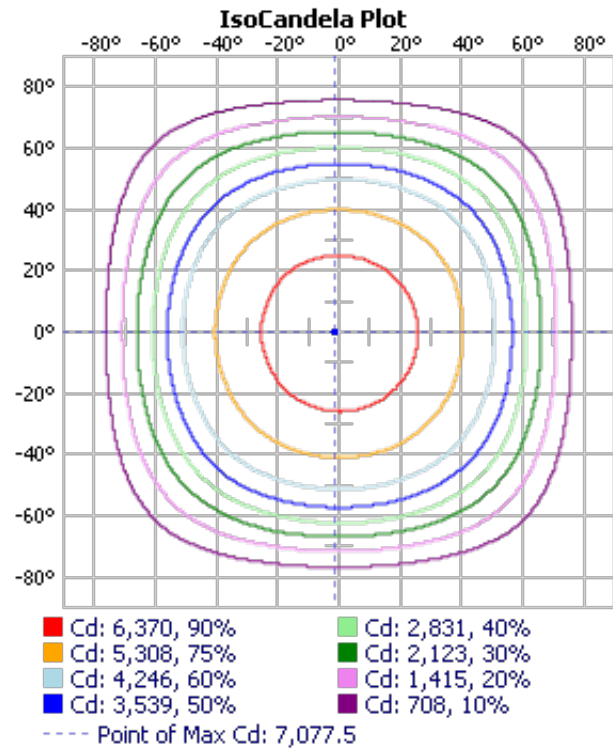
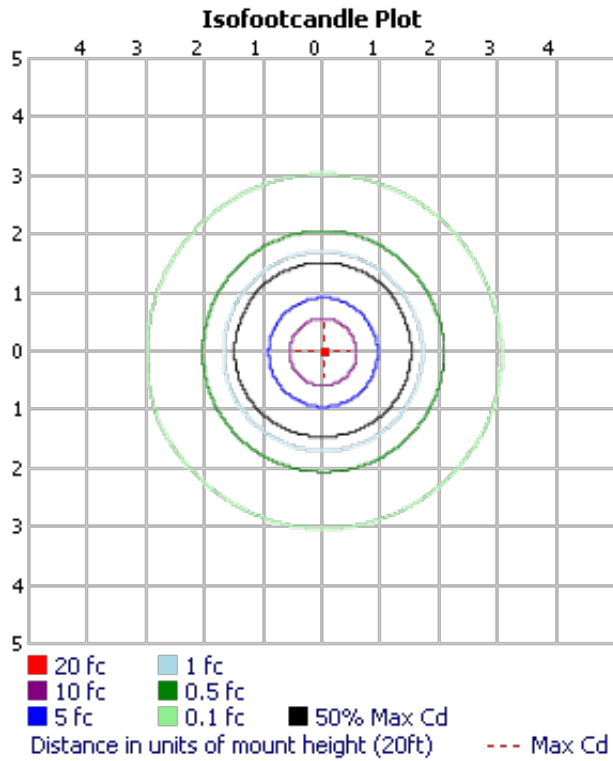
CATALOG: LRHB150-4100K

MANUFACTURER: ARCHIPELAGO LIGHTING
TEST LAB: STANDARD-TECH CO. LTD
TEST DATE: 2017/06/02
DESCRIPTION: LRHB150-4100K
LAMP OUTPUT: TOTAL LUMINAIRE LUMENS: 19490.8, **ABSOLUTE PHOTOMETRY ***
INPUT WATTAGE: 151.1
LUMINOUS OPENING: POINT
NEMA TYPE: 7 X 7
MAX CD: 7,077.5 AT HORIZONTAL: 90°, VERTICAL: 1°



***TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL.**
***CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY.**

VISUAL PHOTOMETRIC TOOL 1.2.46 COPYRIGHT 2018, ACUITY BRANDS LIGHTING.
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ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	5,548.5	28.5%
0-40	9,144.6	46.9%
0-60	16,208.2	83.2%
60-90	3,261.8	16.7%
70-100	1,021.2	5.2%
90-120	8.2	0%
0-90	19,470.0	99.9%
90-180	20.8	0.1%
0-180	19,490.8	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	669.2	3.4%	90-100	3.5	0%
10-20	1,929.2	9.9%	100-110	2.3	0%
20-30	2,950.1	15.1%	110-120	2.4	0%
30-40	3,596.1	18.5%	120-130	2.7	0%
40-50	3,761.8	19.3%	130-140	2.8	0%
50-60	3,301.9	16.9%	140-150	2.8	0%
60-70	2,244.1	11.5%	150-160	2.3	0%
70-80	927.0	4.8%	160-170	1.5	0%
80-90	90.7	0.5%	170-180	0.6	0%

LCS TABLE

BUG RATING	B4 - U2 - G1	
FORWARD LIGHT	LUMENS	LUMENS %
LOW(0-30):	2,775.9	14.2%
MEDIUM(30-60):	5,313.2	27.3%
HIGH(60-80):	1,575.6	8.1%
VERY HIGH(80-90):	46.9	0.2%
BACK LIGHT		
LOW(0-30):	2,772.7	14.2%
MEDIUM(30-60):	5,348.7	27.4%
HIGH(60-80):	1,595.4	8.2%
VERY HIGH(80-90):	43.8	0.2%
UPLIGHT		
LOW(90-100):	3.5	0%
HIGH(100-180):	17.4	0.1%
TRAPPED LIGHT:	0.000	0%

FLOOD SUMMARY

	EFFICIENCY	LUMENS	HORIZONTAL SPREAD	VERTICAL SPREAD
FIELD (10%):	98.3%	19,162.0	152.2	152.7
BEAM (50%):	77.2%	15,051.7	112.7	112.2
TOTAL:	99.9%	19,467.2		

ILLUMINANCE AT A DISTANCE

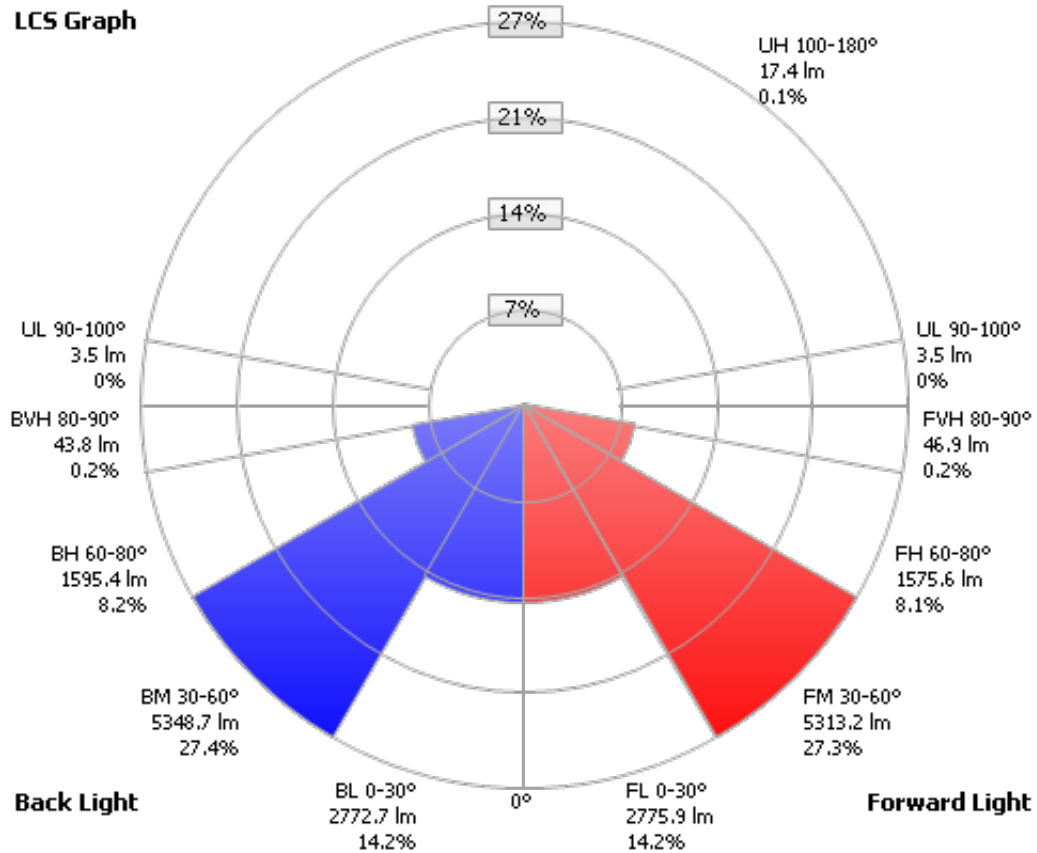
HEIGHT(FT)	CENTER BEAM	BEAM SPREAD(FT)		FIELD SPREAD(FT)	
	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
4.00	441.18 FC	12.0	11.9	32.3	32.9
8.00	110.30 FC	24.0	23.8	64.7	65.9
12.00	49.02 FC	36.0	35.7	97.0	98.8
16.00	27.57 FC	48.0	47.6	129.3	131.8
20.00	17.65 FC	60.0	59.5	161.6	164.7
		BEAM ANGLE		FIELD ANGLE	
		112.7°	112.2°	152.2°	152.7°

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0			
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00						
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.86	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86						
2	1.00	.92	.86	.80	.97	.90	.84	.73	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72						
3	.91	.81	.73	.67	.89	.80	.72	.63	.77	.71	.65	.74	.69	.64	.71	.67	.63	.61						
4	.84	.72	.64	.57	.81	.71	.63	.54	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52						
5	.77	.64	.56	.49	.75	.63	.55	.47	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45						
6	.71	.58	.49	.43	.69	.57	.49	.41	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40						
7	.66	.53	.44	.38	.64	.52	.44	.37	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35						
8	.61	.48	.40	.34	.60	.47	.39	.33	.46	.39	.33	.45	.38	.33	.43	.37	.33	.31						
9	.57	.44	.36	.30	.56	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28						
10	.54	.41	.33	.27	.52	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25						

LCS Graph



Scale = Max LCS %

Trapped Light: 0lm, 0%

CANDELA TABLE - TYPE C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059	7059
5	7032	7031	7041	7039	7046	7013	7023	7030	7032	7040	7037	7039	7050	7019	7019	7029	7032
10	6960	6966	6976	6979	6976	6948	6954	6960	6960	6970	6960	6969	6982	6953	6952	6952	6960
15	6839	6845	6856	6852	6850	6818	6825	6827	6824	6825	6819	6827	6841	6824	6816	6830	6839
20	6667	6672	6677	6657	6660	6612	6632	6636	6639	6637	6629	6634	6642	6637	6639	6649	6667
25	6389	6417	6420	6419	6426	6390	6395	6399	6406	6404	6389	6396	6400	6393	6375	6383	6389
30	6085	6097	6119	6131	6124	6091	6105	6108	6118	6109	6090	6097	6107	6094	6082	6082	6085
35	5732	5742	5767	5767	5783	5742	5739	5752	5760	5746	5728	5731	5733	5739	5734	5726	5732
40	5336	5346	5370	5363	5388	5329	5343	5350	5359	5344	5326	5326	5316	5345	5336	5314	5336
45	4882	4887	4922	4925	4937	4894	4896	4891	4899	4887	4867	4863	4851	4895	4873	4858	4882
50	4289	4267	4342	4410	4419	4337	4358	4355	4360	4340	4320	4316	4304	4374	4361	4312	4289
55	3575	3605	3642	3697	3767	3765	3783	3776	3787	3770	3737	3739	3719	3765	3640	3605	3575
60	2888	2942	2983	2973	3029	2960	3068	3094	3124	3109	3061	2999	2922	2989	2945	2919	2888
65	2223	2240	2275	2270	2318	2271	2284	2347	2342	2302	2276	2227	2207	2248	2228	2215	2223
70	1538	1529	1571	1640	1625	1542	1571	1597	1582	1584	1551	1496	1475	1556	1507	1501	1538
75	852	864	900	909	904	852	867	875	897	866	815	799	774	866	859	847	852
80	309	314	337	343	348	304	322	325	328	313	279	270	261	320	302	299	309
85	36	40	49	55	56	40	47	39	36	34	33	34	32	47	43	38	36
90	4	4	4	4	4	5	5	5	5	5	5	5	5	4	4	4	4
95	3	3	3	3	3	4	4	4	4	4	4	3	3	3	3	3	3
100	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2
105	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2
110	2	2	2	2	2	3	2	3	2	2	2	2	3	2	2	2	2
115	2	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2
120	3	2	3	3	2	3	3	3	3	3	3	3	3	2	3	3	3
125	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
130	3	3	3	3	3	4	3	3	4	3	3	3	4	3	3	3	3
135	4	3	3	4	4	4	4	4	4	4	4	4	4	3	4	4	4
140	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
145	5	4	4	4	4	5	4	4	5	5	4	4	5	4	4	4	5
150	5	4	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5
155	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
160	5	5	5	5	5	5	5	5	6	5	5	5	5	5	5	5	5
165	6	5	5	5	5	6	5	5	6	6	5	5	6	5	5	6	6
170	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
175	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
180	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7